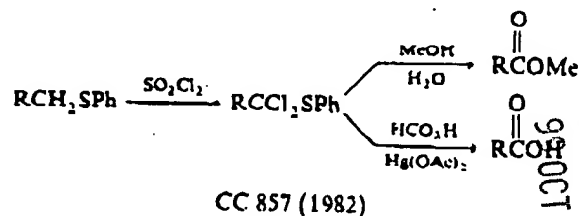


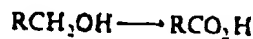
TL 4013 (1977)
 JACS 107 4230 (1985)

10. Sulfides



11. Alcohols

For alcohol \rightarrow ester see also page 963, Section 9.
 For alkenol \rightarrow lactone see page 941, Section 8.

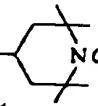


$\text{CrO}_3, \text{HOAc}$	JACS 78 2255 (1956)
$\text{CrO}_3, \text{H}_2\text{SO}_4$	JOC 48 4404 (1983)
$\text{K}_2\text{Cr}_2\text{O}_7, \text{H}_2\text{SO}_4$	JACS 82 2498 (1960)
$(\text{C}_2\text{H}_5\text{NH})_2\text{Cr}_2\text{O}_7$ (PDC), DMF (non-allylic)	TL 399 (1979); J8 5311, 6069 (1987) JACS 104 1774 (1982); 109 5437 (1987) JOC 50 2607 (1985) CL 85 (1986)
KMnO_4	JCS 633 (1939); 2685 (1950) BCSJ 36 1264 (1963) TL 38 5263 (1987)
KMnO_4 (phase transfer)	TL 1511 (1974) JACS 109 7280 (1987)
$\text{NaMnO}_4 \cdot \text{H}_2\text{O}$	TL 22 1655 (1981)
$(n\text{-Bu}_4\text{N})\text{MnO}_4$, py (benzylic)	CC 253 (1978)
$\text{Zn}(\text{MnO}_4)_2 \cdot 6 \text{H}_2\text{O}$	J Biol Chem 241 3970 (1966) JOC 50 5480 (1985)
$\text{Cu}(\text{MnO}_4)_2 \cdot 8 \text{H}_2\text{O}$	JOC 47 2790 (1982)
NaIO_4 , cat $\text{RuCl}_3 \cdot \text{H}_2\text{O}$, H_2O , CH_3CN , CCl_4	JOC 46 3936 (1981); 50 5696 (1985)

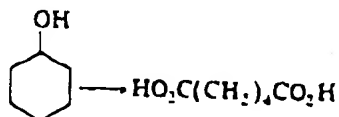
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- NaIO_4 , cat RuO_2 , H_2O , CH_3CN , CCl_4 TL 38 6425 (1987)
 H_5IO_6 , cat $\text{RuCl}_3 \cdot \text{H}_2\text{O}$, H_2O , CH_3CN , CCl_4 JOC 50 1560 (1985)
 RuCl_3 , $\text{K}_2\text{S}_2\text{O}_8$ TL 38 4965 (1987)
 RuO_4 JACS 80 6682 (1958)
 cat $\text{K}_2\text{Ru}_2\text{O}_7$, K_2SO_4 CC 58 (1979)
 cat $\text{RuO}_2 \cdot 2 \text{H}_2\text{O}$, electrolysis JOC 51 155 (1986)
 nickel peroxide, NaOH JOC 27 1597 (1962)
 O_2 , cat PtO_2 Ber 89 1648 (1956)
 Tetr 9 67 (1960)
 JOC 52 4898 (1987)

 AgO TL 5685 (1968)
 HNO_3 Org Syn Coll Vol 1 168 (1941)
 H_2O_2 "Hydrogen Peroxide in Organic Chemistry,"
 DuPont (1962), p 57

 NaOCl , cat MeO -,
 KBr , Aliquat 336 JOC 52 2559 (1987)
 electrolysis [$\text{Ni}(\text{OH})_2$ anode]
 Syn 513 (1979)
 Tetr 38 3299 (1982)

Pseudomonas aeruginosa
 (R = allene, enantioselective) TL 21 1711 (1980)
 Appl Microbiol Biotechnol 21 258 (1985)



- HNO_3 Rec Trav Chim 24 19 (1905)
 JACS 52 3235 (1930)
 Org Syn Coll Vol 1 18 (1941)

 KMnO_4 Ber 41 575 (1908), 55B 3526 (1922)
 J Chem Ed 10 113 (1933)

 $\text{RCH}_2\text{OH} \longrightarrow \text{R}\overset{\text{O}}{\parallel}\text{COCH}_2\text{R}$
 TL 23 35 (1982)
 TL 165 (1979)
 Org Syn Coll Vol 1 138 (1941)
 TL 25 4417 (1984)
 TL 22 5327 (1981)
 JOC 52 4319 (1987)

 $\text{Ca}(\text{OCl})_2$
 KI , H_2O , electrolysis
 $\text{Na}_2\text{Cr}_2\text{O}_7$, H_2SO_4
 $t\text{-BuO}_2\text{H}$, cat $(\text{PhCH}_2\text{NMe}_3)\text{OMoBr}_4$
 cat $\text{H}_2\text{Ru}(\text{PPh}_3)_4$